

809

TIME ALIGN[®] STUDIO MONITOR



FEATURES:

Flat power response maintains frequency balance at low distortion over wide range of output levels.

Time Align[®] design achieves accurate time domain response, minimizing fatigue while listening at high sound pressure levels.

One-point sound source.

Highly controlled sound field over entire frequency range.

Accurate stereophonic imaging.

Consistent ratio of direct to reverberant sound.

Since their introduction the UREI Time Align[®] studio monitors have continually been installed in more and more recording studios and broadcast production facilities worldwide to replace older (and some newer) monitor designs.

Now a Time Align[®] monitor is available for the smallest control room or near-field monitoring in any room. The Model 809 features an all-new 300 mm (12 in) coaxial loudspeaker developed by UREI engineers. Utilization of the latest advances in materials and fabrication technology has provided another coaxial loudspeaker system for the UREI 800-Series "family" with the following characteristics:

- High sensitivity.
- High power handling capability.
- Extended high frequency response.
- Reduced transient distortion (ringing).

The coaxial loudspeaker incorporates a titanium diaphragm compression driver in the high-frequency section which extends the high frequency response envelope to beyond 17.5 kHz.

The UREI logo consists of the letters 'U', 'R', 'E', and 'I' in a stylized, outlined font. The 'U' and 'R' are connected at the top, and the 'E' and 'I' are connected at the top. The letters are white with a black outline, set against a black background.

The 809 monitor has the patented high frequency horn with its diffraction buffer for correct acoustic impedance matching and smooth out-of-band-response. The ceramic magnet structures used on the drivers assure that the sensitivity of the system will not tend to degrade with time, even under continuous use at high monitoring levels.

The UREI 809 monitor uses a 300mm (12 in) coaxial driver to provide a true one-point sound source, tight bass, superior stereo imaging, and all of the other characteristics expected from studio monitors by UREI.

TIME OFFSET CORRECTION

Even though a coaxial loudspeaker delivers the entire frequency spectrum from one source, the voice coils of the two transducers are displaced from each other, and the low and high frequency portions of a sound do not arrive at the listener's ear at the same time. This phenomenon, called "time smear," can be extremely fatiguing, particularly after several hours of critical listening.

UREI, in a joint engineering project with E.M. Long Associates, perfected the first professional utilization of the Time Align® technique, which considers driver placement and adjusts crossover group delay parameters to achieve simultaneous arrival of the sounds from both sections of the coaxial loudspeaker at the listener's ear. The result is a uniform sound which is not fatiguing, even at the high levels required in recording studio control rooms.

MIRROR IMAGE

For stereo applications, all UREI monitors are available in mirror imaged pairs for superior stereo reproduction and centering at the listening position.

UREI TIME ALIGN® MONITOR SPECIFICATIONS

Model 809

SPEAKER COMPLEMENT:	Single Coaxial
POWER RATING:	100 watts, 50 Hz-20 kHz with pink noise.
FREQUENCY RESPONSE:	50 Hz-17.5 kHz ± 3 dB
SENSITIVITY:	93 dB SPL/watt/meter
IMPEDANCE:	8 ohms, nominal (minimum > 6 ohms)
ENCLOSURE:	Approx 65L (2.3 ft) ³
WEIGHT:	27 kg. (60 lb)
SHIPPING WEIGHT:	34 kg (75 lb)
DIMENSIONS:	
Height:	584 mm (23 in)
Width:	419 mm (16 1/2 in)
Depth:	343 mm (13 3/8 in)
Depth with grille:	406 mm (16 in)
ENCLOSURE FINISH:	Utility Flat Black Painted
OPTIONAL GRILLE:	809G

*Time Align® and its derivatives are trademarks of E.M. Long, Assoc., Oakland, CA

Acoustic Response Curves

Model 809 shown with optional grille.